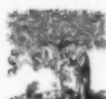


## Author index

- Abbott, C. 1  
Abe, Y. 43  
An, J. 303
- Baczko, K. 79  
Baggio, R.F. 99  
Banoub, J. 79  
Bauer, C.J. 139  
Berić, O. 343  
Besemer, A.C. 89  
Brade, H. C1  
Brouillette, J.N. 201
- Campos-Portuguez, S. 157  
Carlson, R.W. 303  
Cases, M.R. 333  
Cerezo, A.S. 333  
Chai, W. 111, 139  
Chida, N. 53  
Choy, Y.M. 295  
Colquhoun, I.J. 319  
Csanádi, J. 343
- Defernez, M. 319  
De Lederkremer, R.M. 99  
De Nooy, A.E.J. 89  
Di Nardo, C. 99  
Dutton, G.G.S. 295
- El Ashry, E.S.H. 349  
El Habrouk, M. 349  
Elvebak II, L.E. 1  
Endo, T. 273, 369
- Falshaw, R. 183  
Fronczek, F.R. 191  
Fujiwara, M. 43  
Furneaux, R.H. 183
- Garland, M.T. 99  
Glushka, J. 303  
Gray, G.R. 1, 167
- Haasnoot, C.A.G. 17  
Harata, K. 43  
Hashimoto, H. 273  
Helander, A. 125  
Herbst, R. 29  
Hicks, K.B. 201  
Holst, O. C1  
Hounsell, E.F. 139
- Ijima, H. 227  
Irwin, P.L. 201
- Jachymek, W. 125  
Jones, C. 175
- Kajihara, Y. 273  
Kenne, L. 125  
Kobayashi, S. 369  
Kochanowski, H. 157  
Kodama, H. 273
- Lankhorst, P.P. 17  
Lawson, A.M. 111, 139  
Lee, C.K. 167  
Lee, Y. 191  
Leslie, M.R. 295  
Lugowski, C. 125
- Macindoe, W.M. 227  
Mayer, H. 157  
Miljković, D. 343  
Morris, V.J. 319  
Mousaad, A. 349  
Müller-Loennies, S. C1

- Nagai, T. 369  
Nakahara, Y. 227  
Neighbors, S.M. 259  
Niedziela, T. 125  
Nimmich, W. C1  
Nugier-Chauvin, C. 79
- Ogasawara, H. 273  
Ogawa, S. 53  
Ogawa, T. 227  
Ohbu, K. 43
- Faibir, S.G. 259  
Parolis, H. 295  
Parolis, L.A.S. 295  
Petersson, C. 125  
Pfannemüller, B. 29  
Plusquellec, D. 79  
Popsavin, M. 343  
Popsavin, V. 343
- Rademann, J. 217  
Rashed, N. 349  
Rosankiewicz, J.R. 111
- Saenger, W. 29  
Schmidt, R.R. 217
- Shalaby, M.A. 191  
Shashkov, A.S. 157  
Smeets, J.W.H. 17  
Soine, W.H. 259  
Steiner, T. 29  
Stortz, C.A. 333  
Streeter, J.G. 303  
Süsskind, M. C1
- Taki, T. 53  
Tarelli, E. 359  
Thibault, P. 79
- Ueda, H. 369
- Van Bakkum, H. 89  
Varela, O. 99  
Vega, D.R. 99
- Wall, S. 1  
Wheeler, S.F. 359
- Yokoi, S. 53  
Yokota, A. 157  
Yoshikawa, M. 53  
Younathan, E.S. 191



ELSEVIER

Carbohydrate Research 269 (1995) C11-C14

CARBOHYDRATE  
RESEARCH

## SUBJECT INDEX

- Acetan, 319  
*Acetobacter xylinum*, 319  
*O*-Acetylated cellulose by the reductive-cleavage method, analysis of positions of substitution of *O*-acetyl groups in partially, 167  
Acetylated or benzoyleated 1,5-anhydro-*D*-galactitol, authentic standards for the reductive-cleavage method. The positional isomers of partially methylated and, 1  
*O*-Acetyl groups in partially *O*-acetylated cellulose by the reductive-cleavage method, analysis of positions of substitution of, 167  
*N*-Acetylneuraminic acid and 3-deoxy-*D*-manno-2-oxulosonic acid (Kdo), synthesis of carbocyclic analogues, 53  
6-*O*-Acyl and 6,6'-di-*O*-acetylsucroses, a new synthesis, 79  
Alditols, separation and quantitation of enantiomeric galactoses and their mono-*O*-methyl ethers as their diastereomeric acetylated 1-deoxy-1-(2-hydroxypropylamino), 333  
Aldosulose bis(phenylhydrazones), isopropylideneation of, 349  
Algal galactans by methylation and reductive partial-hydrolysis, the structural analysis of disaccharides from red, 183  
Aliphatic chain packing, 29  
Alkyl-gluconamides, 29  
Amphiphilic molecules, 29  
  
Bacterial polysaccharides, 319  
Barbital, phenobarbital, metharbital, and methophobarbital, synthesis of *N*- $\beta$ -*D*-glucopyranosyluronate derivative of, 259  
Benzoyleated 1,5-anhydro-*D*-galactitol, authentic standards for the reductive-cleavage method. The positional isomers of partially methylated and acetylated or, 1  
Biantennary penta- and hepta-saccharides having two 6-deoxy-*D*-galactose residues at the nonreducing end and evaluation of 6-deoxy-*D*-galactosyl transfer to glycoprotein using bovine  $\beta$ -(1  $\rightarrow$  4)-galactosyltransferase and UDP-6-deoxy-*D*-galactose, enzymic transfer of 6-modified residues: Synthesis of, 273  
Bilayer, 43  
Blood group A type glycopeptide present in human blood mucin, stereoselective total synthesis of a, 227  
*Bradyrhizobium* species within soybean nodules, the structure of the novel polysaccharide produced by, 303  
Bromination of sugar enones and enonolactones, 99  
  
Capsular polysaccharide, 295  
Capsular polysaccharide from *Streptococcus pneumoniae* serotype 10A, full assignment of the NMR spectrum, 175  
Carbocyclic analogues of 3-deoxy-*D*-manno-oxulosonic acid (Kdo) and *N*-acetylneuraminic acid, synthesis, 53  
Cellulose by the reductive-cleavage method, analysis of positions of substitution of *O*-acetyl groups in partially *O*-acetylated, 167  
Chlorogenic acid: water activity dependence, cyclomaltoheptaose ( $\beta$ -cyclodextrin) and hydroxyethyl-substituted  $\beta$ -cyclodextrin inclusion complex formation with, 201  
Conformational analysis, 17  
Core/lipid A region of the lipopolysaccharide from *Klebsiella pneumoniae* rough mutant R20/O<sup>-</sup> structural investigation, C1  
Crystal packing, 29  
Crystal structure, 43  
Cyanogenic glycoside, 17  
( $\eta$ -Cyclodextrin), isolation, purification and characterization of cyclomaltododecaose, 369  
Cyclomaltododecaose ( $\eta$ -cyclodextrin), isolation, purification and characterization of, 369  
Cyclomaltoheptaose ( $\beta$ -cyclodextrin) and hydroxyethyl-substituted  $\beta$ -cyclodextrin inclu-

- sion complex formation with chlorogenic acid: water activity dependence, 201
- 6-Deoxy-D-galactose residues at the nonreducing end and evaluation of 6-deoxy-D-galactosyl transfer to glycoprotein using bovine  $\beta$ -(1  $\rightarrow$  4)-galactosyltransferase and UDP-6-deoxy-D-galactose, enzymic transfer of 6-modified residues: Synthesis of biantennary penta- and hepta-saccharides having two, 273
- 6-Deoxy-D-galactosyl transfer to glycoprotein using bovine  $\beta$ -(1  $\rightarrow$  4)-galactosyltransferase and UDP-6-deoxy-D-galactose, enzymic transfer of 6-modified residues: Synthesis of biantennary penta- and hepta-saccharides having two 6-deoxy-D-galactose residues at the nonreducing end and evaluation of, 273
- 3-Deoxy-D-manno-2-octulosonic acid (Kdo) and N-acetylneuraminic acid, synthesis of carbocyclic analogues, 53
- Diaminopyranoses forming the repeating unit, the structure of the O-specific polysaccharide from *Thiobacillus* sp. IFO 14570, with three different, 157
- Diastereomeric acetylated 1-deoxy-1-(2-hydroxypropylamino)alditols, separation and quantitation of enantiomeric galactoses and their mono-O-methyl ethers as their, 333
- Disaccharides from red algal galactans by methylation and reductive partial-hydrolysis, the structural analysis of, 183
- 3D structure, 17
- Enones and enonolactones, bromination of sugar, 99
- Enonolactones, bromination of sugar enones, 99
- Escherichia coli*, 295
- Galactans by methylation and reductive partial-hydrolysis, the structural analysis of disaccharides from red algal, 183
- D-Galactitol, authentic standards for the reductive-cleavage method. The positional isomers of partially methylated and acetylated or benzoylated 1,5-anhydro-, 1
- Galactoses and their mono-O-methyl ethers as their diastereomeric acetylated 1-deoxy-1-(2-hydroxypropylamino)alditols, separation and quantitation of enantiomeric, 333
- $\beta$ -(1  $\rightarrow$  4)-Galactosyltransferase and UDP-6-deoxy-D-galactose, enzymic transfer of 6-modified residues: Synthesis of biantennary penta- and hepta-saccharides having two 6-deoxy-D-galactose residues at the nonreducing end and evaluation of 6-deoxy-D-galactosyl transfer to glycoprotein using bovine, 273
- N- $\beta$ -D-Glucopyranosyluronate derivatives of barbital, phenobarbital, metharbital, and mephobarbital, synthesis of, 259
- Glucosidase, 17
- D-Glucose, an alternative synthesis of (+)-epi-*allo*-muscarine from, 343
- Glycopeptide present in human blood mucin, stereoselective total synthesis of a blood group A type, 227
- Glycoprotein using bovine  $\beta$ -(1  $\rightarrow$  4)-galactosyltransferase and UDP-6-deoxy-D-galactose, enzymic transfer of 6-modified residues: Synthesis of biantennary penta- and hepta-saccharides having two 6-deoxy-D-galactose residues at the nonreducing end and evaluation of 6-deoxy-D-galactosyl transfer to, 273
- Glycosaminoglycan, 111
- Glycosurfactant, 43
- Glycosylated hexapeptide of human sialophorin, solid-phase synthesis using the trichloroacetimidate method, 217
- Hafnia alvei* strain 1192 lipopolysaccharide, structural studies of the O-specific chain and a core hexasaccharide, 125
- Heparin, characterisation by LSI-MS and  $^1\text{H}$  NMR spectroscopy of oligosaccharides of porcine intestinal, 139
- Heterodendrin, 17
- $^1\text{H}$  NMR spectroscopy and liquid secondary ion mass spectrometry, characterisation of oligosaccharides of porcine intestinal heparin, 139
- Human blood mucin, stereoselective total synthesis of a blood group A type glycopeptide present in, 227
- Hydrogen bond, 43
- Hydrogen bonding, 29
- Inclusion complex formation with chlorogenic acid: water activity dependence, cyclomaltoheptaose ( $\beta$ -cyclodextrin) and hydroxyethyl-substituted  $\beta$ -cyclodextrin, 201
- Interdigitated structure, 43
- Isopropylidenation of aldulose bis(phenylhydrazones), 349
- K43 antigen, 295
- Klebsiella pneumoniae* rough mutant R20/O1 $^-$ , structural investigation on the carbohydrate backbone of the lipopolysaccharide, C1
- Lipopolysaccharide from *Klebsiella pneumoniae* rough mutant R20/O1 $^-$ , structural investigation of the carbohydrate backbone, C1

- Lipopolysaccharide, structural studies of the O-specific chain and a core hexasaccharide of *Hafnia alvei* strain 1192, 125
- Liquid secondary ion mass spectrometry (LSIMS), 111
- D-Mannitol. Comparison of NMR spectral results for the solid state and solution with those of the X-ray structural determination, synthesis of 3,4-di-O-acetyl-2,5-anhydro-1,6-dideoxy-1,6-diido-, 191
- Mephobarbital, synthesis of *N*- $\beta$ -D-glucopyranosyluronate derivatives of barbital, phenobarbital, metharbital, and, 259
- Metharbital, and mephobarbital, synthesis of *N*- $\beta$ -D-glucopyranosyluronate derivatives of barbital, phenobarbital, 259
- Methylated and acetylated or benzoylated 1,5-anhydro-D-galactitol, authentic standards for the reductive-cleavage method. The positional isomers of partially, 1
- Methylation and reductive partial-hydrolysis, the structural analysis of disaccharides from red algal galactans by, 183
- MM2, 17
- (+)-epiallo-Muscarine, an alternative synthesis from D-glucose, 343
- Neoglycolipids, 111
- Nitroxyl radical-mediated oxidation of primary alcohol groups in water-soluble glucans, 89
- NMR, 17
- NMR spectral results for the solid state and solution with those of the X-ray structural determination, synthesis of 3,4-di-O-acetyl-2,5-anhydro-1,6-dideoxy-1,6-diido-D-mannitol. Comparison of, 191
- NMR spectroscopy, 295, 319
- Nonionic surfactant, 43
- Oligosaccharides of porcine intestinal heparin, characterisation by LSI-MS and  $^1\text{H}$  NMR spectroscopy, 139
- Oxymercuration, 111
- Phenobarbital, metharbital, and mephobarbital, synthesis of *N*- $\beta$ -D-glucopyranosyluronate derivatives of barbital, 259
- Polysaccharide from *Streptococcus pneumoniae* serotype 10A, full assignment of the NMR spectrum of the capsular, 175
- Polysaccharide produced by *Bradyrhizobium* species within soybean nodules, the structure of the novel, 303
- Primary alcohol groups oxidation in water soluble glucans with nitroxyl radicals, 89
- Reductive-cleavage method, analysis of positions of substitution of O-acetyl groups in partially O-acetylated cellulose by the, 167
- Reductive-cleavage method. The positional isomers of partially methylated and acetylated or benzoylated 1,5-anhydro-D-galactitol, authentic standards for the, 1
- Reductive partial-hydrolysis, the structural analysis of disaccharides from red algal galactans by methylation and, 183
- Solid-phase synthesis of a glycosylated hexapeptide of human sialophorin, using the trichloroacetimidate method, 217
- O-Specific polysaccharide and a core hexasaccharide of the *Hafnia alvei* strain 1192 lipopolysaccharide, structural studies, 125
- O-Specific polysaccharide from *Thiobacillus* sp. IFO 14570, with three different diaminopyranoses forming the repeating unit, the structure of the, 157
- Stereospecific synthesis of (+)-epiallo-muscarine from D-glucose, 343
- Streptococcus pneumoniae* serotype 10A, full assignment of the NMR spectrum of the capsular polysaccharide, 175
- Structural analysis of disaccharides from red algal galactans by methylation and reductive partial-hydrolysis, the, 183
- Structure of the novel polysaccharide produced by *Bradyrhizobium* species within soybean nodules, the, 303
- Structure of the O-specific polysaccharide from *Thiobacillus* sp. IFO 14570, with three different diaminopyranoses forming the repeating unit, the, 157
- Substitution of O-acetyl groups in partially O-acetylated cellulose by the reductive-cleavage method, analysis of positions of, 167
- Sucrose and sodium phosphate, the preparation of sucrose monophosphates from dried mixtures of, 359
- Sucrose monophosphates from dried mixtures of sucrose and sodium phosphate, the preparation of, 359
- Surfactant, 43
- Synthesis of a blood group A type glycopeptide present in human blood mucin, stereoselective total, 227
- Synthesis of 3,4-di-O-acetyl-2,5-anhydro-1,6-dideoxy-1,6-diido-D-mannitol. Comparison of NMR spectral results for the solid state and solution with those of the X-ray structural determination, 191

TLC-LSIMS, 111

Trichloroacetimidate method, use in the solid-phase synthesis of a glycosylated hexapeptide of human sialophorin, 217

UDP-6-deoxy-D-galactose, enzymic transfer of 6-modified residues: Synthesis of biantennary penta- and hepta-saccharides having two 6-deoxy-D-galactose residues at the nonreducing end an evaluation of 6-deoxy-D-galactosyl transfer to glycoprotein using

bovine  $\beta$ -(1  $\rightarrow$  4)-galactosyltransferase and, 273

Water-soluble glucans oxidation of primary alcohol groups with nitroxyl radicals, 89

X-ray analysis, 43

X-ray structural determination, synthesis of 3,4-di-O-acetyl-2,5-anhydro-1,6-dideoxy-1,6-diiodo-D-mannitol. Comparison of NMR spectral results for the solid state and solution with those of the, 191

